From: Lindstrom, Andrew [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=04BF7CF26AA44CE29763FBC1C1B2338E-LINDSTROM, ANDREW]

Sent: 2/26/2016 7:22:41 PM

To: Arlene Blum [arleneb@lmi.net]

CC: Lau, Chris [/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=dd4494e8927a4d78a5d2b9b20c618d4e-Lau, Chris]

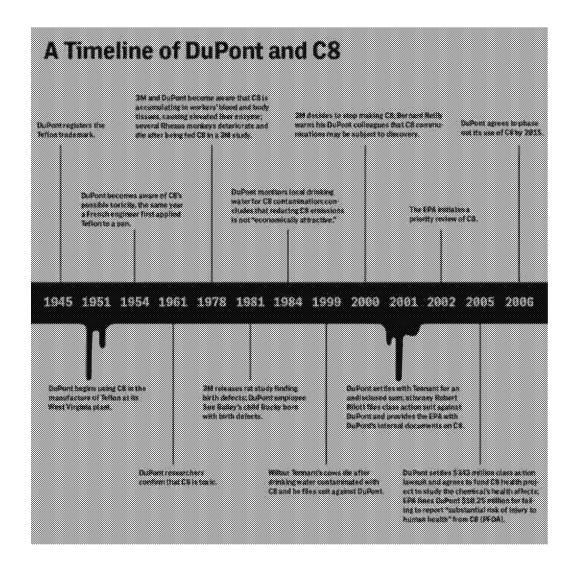
Subject: RE: Literature references needed for SCIENCE Editorial

Attachments: Bilott to EPA 1_20_2015 .pdf

Arlene.

Please check out the timeline from the Intercept story referenced here

https://theintercept.com/2015/08/20/teflon-toxin-dupont-slipped-past-epa/



This is saying 1954 was when toxicity became apparent.

A much more detailed timeline is available from the fluoride action network, here:

http://www.fluoridealert.org/wp-content/pesticides/effect.pfos.class.timeline.htm

Much of this early documentation is in EPA's AR226 docket on the PFCs. It has enormous amounts of data, but it is not searchable.

I'm pretty sure somebody has access to this early information – probably Rob Bilott would know best. In his letter attached above he notes human health effects were an issue for the companies by the 1970s (page 12 of 60).

Thank you,

Andy

From: Arlene Blum [mailto:arleneb@lmi.net] Sent: Friday, February 26, 2016 12:20 PM

To: Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>

Cc: Lau, Chris < Lau. Christopher@epa.gov>

Subject: RE: Literature references needed for SCIENCE Editorial

Andy,

Thanks so much. Chris can you add to these references. The more the better for science. Some question in CAPS

She asked for

Please provide amimal studies and/or epidemeologicla references for cancer, cholesterol, and other health problems

is there any more than the one reference from the C8 panel?

Here another comment from Lisa that could use a more detailed reference list if it exists

Here you need to say what we know so far about these. Please provide sources as well; do C6s include the short chain perfluoroalkyl substances? The EPA and other regulators approved these as alternatives to long chnains (which would include C8s, correct?) See the response to the Madrid Statement

Arlene

At 08:50 AM 2/26/2016, Lindstrom, Andrew wrote:

Arlene,

I'm not sure if I caught all of the places where you need references, but here are the major ones I was able to pick out:

Ongoing nature of "whack a mole―

Goldstein B, Banda S, Cairncross E, Jiang G,Massey R,Miglioranza K, Samseth J, Scheringer M, Smith J. Chapter â€æminimizing chemical risks― from UNEP year book 2013: emerging issues in our global environment; 2013 [37–"51 pp.].

Strempel S, Scheringer M, Ng C, Hungerbù⁄₄hler K. Screening for PBT chemicals among the "existing― and "new― chemicals of the EU. Environ Sci Tech 2012;46(11):5680–7. http://dx.doi.org/10.1021/es3002713.

Long half-lives in people

Lau C, Anitole K, Hodes C, Lai D, Pfahles-Hutchens A, Seed J. Perfluoroalkyl acids: a review of monitoring and toxicological findings. Toxicol Sci 2007;99(2):366–94. httpp://dx.doi.org/10.1093/toxsci/kfm128.

C8 Science panel disease links

Epidemiology 25, (2) 167-169 Class action Lawsuits Can They Advance Epidemiologic Research?

IS THIS THE TITLE IS THERE AN AUTHOR?

50 year time line

Environ. Sci. Technol. 2011, 45, 7954–7961

Polyfluorinated Compounds: Past, Present, and Future

Toxicity and characteristics of short chain replacements

ARE THERE ANY OTHERS
CAN YOU HELP WITH A SENTENCE FOR THE TEXT REGARDING THIS

Environment International 75 (2015) 172-179

Hazard assessment of fluorinated alternatives to long-chain perfluoroalkyl acids (PFAAs) and their precursors: Status quo, ongoing challenges and possible solutions

Please let me know if you need more information.

Thank you,

From: Arlene Blum [<u>mailto:arleneb@lmi.net</u>]
Sent: Friday, February 26, 2016 10:44 AM

To: Lindstrom, Andrew < <u>Lindstrom. Andrew@epa.gov</u>>

Cc: Lau, Chris < Lau. Christopher@epa.gov>

Subject: Literature references needed for SCIENCE Editorial

Thanks so much Andy for your edits did you notice that they have requested specific references and I am not familiar with the literature

I would be most appreciative f you could provide references such as requested in her comments. Thanks so much Arlene for

Arlene Blum, PhD
Green Science Policy Institute
Office: 510 898 1739

Ex. 6 Personal Privacy (PP)

www.greensciencepolicy.org

On Feb 26, 2016, at 6:04 AM, Lindstrom, Andrew < <u>Lindstrom.Andrew@epa.gov</u> > wrote: Arlene,

Thank you very much for the opportunity to offer my opinion.

I've attached my edits above.

Please note that I've added something about the lead crisis in Flint, MI (instead of asbestos) as the example of how poorly our regulations are protecting public health. Flint is very powerful now and it would be a shame not to use this situation to make an important point.

The other edits about C6 compounds are more generic, but I think they are accurate enough.

I am interested to see what Chris has to add.

Please let us know how this progresses.

Thank you very much,

Andy

From: Arlene Blum [mailto:arleneb@lmi.net]
Sent: Thursday, February 25, 2016 10:45 PM
To: Lau, Chris < Lau. Christopher@epa.gov >; Lindstrom, Andrew < Lindstrom. Andrew@epa.gov >

Subject: Your SCIENCE Editorial

Dear Chris and Andy,

i just received the attached edit from Science.

I would be extremely grateful if you might you be able to help me with edits on the two paragraphs on PFAS, especially what is known regarding health effects and references for C6 and other PFAS Today was Simona's last day and I don't have this expertise. Any chance you can do this Friday or over the weekend?

Parts of the editing were very disappointing, especially the quote from the fluorocouncil which seems highly inappropriate in my editorial and I will push back for sure.

Thanks so much. i'm around tomorrow morning in case you might want to discuss.

Kind regards, Arlene

Dear Dr. Blum,

Thank you for sending in your editorial for consideration. As with all submissions to the page, your piece was seen by the Editor-in-Chief, Dr. Marcia McNutt, and members of the Science News and Editorial staffs who discuss all potential editorials.

Attached is an edited version of your piece. The suggested edits and queries reflect the most important points raised during our discussions. You will see that I have asked for sources for many things. Please provide those for our records. There is not enough space for references on the editorial page, but we will keep them on the record in case someone questions the sources.

The revision should be no longer than 625 words. That includes the footnotes (and you are limited to 3 footnotes).

If I can have your revision by Monday next week, that would be great.

I will also need your photo for the pageÂit should be color, a headshot, and be of high resolution for print (3 x 4 inches at 300 dpi). Please also provide a credit for the photo as we publish that information.

Many thanks again and let me know if you have any questions.

Could you kindly please confirm receiving this message?

Sincerely yours,

Lisa Chong 202-326-7060

Arlene Blum, PhD arlene@arleneblum.com

Visiting Scholar, Chemistry, UC Berkeley Executive Director, Green Science Policy Institute

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Web: www.greensciencepolicy.org, www.arleneblum.com

The Green Science Policy Institute provides unbiased scientific information to government, industry, and non-governmental organizations to facilitate more informed decision-making about chemicals used in consumer products in order to protect health and environment world-wide.

<ABL comments on Blum Editorial LC Edit2.doc>